

ABSTRACT

A method for collecting signals from a detector that has a plurality of lines of image elements includes sending a control signal to a gate driver to select transistor gates for two or more lines of image elements, and simultaneously passing signals from the two or more lines of image elements to charge amplifiers that are coupled to the image elements. A method for collecting signals from a detector that has a plurality of imagers is provided. Each of the imagers has a plurality of lines of image elements. The method includes sending a control signal to a gate driver to select one or more lines of image elements on each of the plurality of the imagers, and simultaneously passing signals from the selected one or more lines of image elements on each of the plurality of the imagers to charge amplifiers that are coupled to the image elements.